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*North America's Leader in Hazardous Material Information Management*  
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## MSDS PRODUCT INFORMATION

Date: 10/07/2005  
To: MSDS Requester  
From: 3E Company  
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☐ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☒ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: Ringer Corporation  
Product Name: Safer B.T. Caterpillar Attack Concentrate

**MATERIAL SAFETY DATA SHEET**  
(Complies with OSHA CFR 1910.1200, ANSI Z 400.1-1993)

**SECTION 1: Chemical Product & Company Identification**

Product Name(s): Safer® Brand Caterpillar Killer for Trees, Shrubs & Vegetables Concentrate  
MSDS Number: 5160 EPA Number: 42697-23  
Manufacturer Name & Address: Safer®, Inc., a wholly owned subsidiary of Verdant Brands, Inc. 9555 James Avenue S., Suite 200,  
Bloomington, MN 55431  
Telephone Contact Number & Hours of Operation: (612) 703-3300, 8:00 a.m. - 5:00 Central Time  
Emergency Telephone Contact Number: Chemtrec 1-800-424-9300

**SECTION 2: Composition/Information on Ingredients**

<u>Hazardous Ingredients</u> <sup>(1)</sup>	% by weight	CAS No.	OSHA TWA	PEL STEL	ACGIH TLV TWA	STEL
<i>Bacillus thuringiensis</i>	N/A	68038-71-1	NE	NE	NE	NE

\* all ingredients in quantities > 1.0 % (0.1 % for carcinogens or teratogens) that are potentially hazardous per OSHA definitions  
N/A = not applicable NE = not established

**SECTION 3: Hazards Identification**

**EMERGENCY OVERVIEW**

Physical description: Tan to brown colored liquid

Odor: yeast-like odor

**Potential Health Effects:** This material may be minimally irritating to the eyes and moderately irritating to skin. Personnel responding to a spill of this material would likely encounter no other substantial hazards.

**SECTION 4: First Aid Measures**

**Skin Contact:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**Ingestion:** If swallowed, promptly drink large amounts of water. Never give liquids to an unconscious person. Get medical attention.

**Eye Contact:** Flush eyes with plenty of water. Call a physician if irritation persists.

**Inhalation:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**SECTION 5: Fire Fighting Measures**

**Extinguishing media:** CO<sub>2</sub>, dry chemical, foam, water

**Hazardous products of combustion:** not determined

**Flashpoint:** 360°F Closed Cup

**Autoignition temperature:** not applicable

**NFPA Ratings:** Health = 1 Fire = 1 Reactivity = 0

**SECTION 6: Accidental Release Measures**

**Spills:** Rinse with abundant water and mop up (See Disposal Comments in Section 13)

**SECTION 7: Handling & Storage**

**Storage:** Store away from heat, out of reach of children. Do not contaminate water, food or feed by storage or disposal. Do not reuse container.

**Storage Temperature:** Avoid excessive temperatures and direct sunlight. Store below 110°F.

**SECTION 8: Exposure Controls & Personal Protective Equipment**

**Skin:** Protective gloves recommended

**Eye Protection:** Recommended to avoid splashing of material directly into eyes

**Respiratory:** In typical applications no engineering controls should be needed; if industrial hygiene surveys show that occupational exposure limits may be exceeded, use NIOSH approved respirator with dust/mist cartridges

**SECTION 9: Physical & Chemical Parameters**

**Appearance:** Tan to brown

**Odor:** yeast-like odor

**Physical state:** liquid

**Solubility in water:** soluble

**Bulk Density:** 0.94-.98

**pH:** 4-6.5

**Vapor pressure:** not determined

**Vapor density:** not determined

**Boiling point:** 400°F

**Freezing point:** not determined

**SECTION 10: Stability & Reactivity**

**Stability:** stable

**Conditions to avoid:** excessive heat

**Incompatibilities:** Concentrated mineral supplements (fertilizers), strong oxidizers, acids

**Hazardous polymerization:** will not occur

**SECTION 11: Toxicological Information**

**Oral LD<sub>50</sub>:** > 8,100 mg/kg

**Dermal LD<sub>50</sub>:** > 7,200 mg/kg

**Inhalation LC<sub>50</sub>:** > 5,000 mg/m<sup>3</sup>

**Not a contact sensitizer**

**Carcinogens:** None listed per OSHA, NTP, or IARC

**SECTION 12: Ecological Information**

**Ecotoxicity:** May be hazardous to aquatic invertebrates. Do not apply directly to water; do not contaminate water by cleaning of equipment or disposal of washwaters.

**Environmental Fate:** no data available

**SECTION 13: Disposal Considerations**

This material (as packaged) is not considered a hazardous waste. Be aware that the waste owner has responsibility for final disposal. Regulations may also apply to empty containers, liners or rinsate. Laws may change or be reinterpreted; state and local regulations may be different from federal regulations. This information applies to materials as manufactured; contamination or processing may change waste characteristics and requirements.

**SECTION 14: Transport Information**

**DOT Hazard Description:** Not regulated

**SECTION 15: Regulatory Information**

**SARA Title III:** not regulated

**Individual States:** States such as Pennsylvania, New Jersey, California, Vermont, Massachusetts and Rhode Island may all have components of this product listed; consult specific state regulatory requirements for additional information.

**SECTION 16: Other Information**

For additional information, refer to the American Conference of Governmental Industrial Hygienists (ACGIH) documentation of TLV's (Threshold Limit Values) for individual components and the DOT Emergency Response Guidebook.

This information is provided in good faith, but without express or implied warranty.